

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/001248

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A01N 59/02, A01N 37/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, CHEM.ABS.DATA

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0640285 A1 (SCHÜLKE & MAYR GMBH), 1 March 1995 (01.03.1995) --	1-35
X	WO 0194513 A1 (S.C. JOHNSON & SON, INC.), 13 December 2001 (13.12.2001) --	1-35
X	WO 9746218 A2 (CIBA SPECIALTY CHEMICALS HOLDING INC.), 11 December 1997 (11.12.1997) --	1-35



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

23 March 2004

Date of mailing of the international search report

24-03-2004

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

SOLVEIG GUSTAFSSON/BS  
Telephone No. +46 8 782 25 00

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Week 200006 Derwent Publication Ltd., London, GB; Class D22, AN 2000-621108 & JP2000201559 A (NAKAMURA K), 25 July 2000 (2000-07-25) abstract  --	1-35
X	STN International, File CAPLUS, CAPLUS accession no. 1983:401813, document no. 99:1813, Bezemek, Jiri et al, "Liquid disinfectants with detergent activity", & CS,B,205795,19810529  --	1-35
A	WO 9639842 A1 (APPLIED MICROBIOLOGY, INC.), 19 December 1996 (19.12.1996)  -- -----	1-35

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT SE2003/001248

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.: **1, 4-13**  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
**see extra sheet**
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

## Box II.2

Present claims 1, 4-13 relate to an extremely large number of possible sulfur-containing compounds and products comprising these. In fact, the claim contains so many options that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible.

Consequently, the search has been carried out for those parts of the application which appear to be clear and concise, namely sulfate or sulfite salts in combination with lactic acid and ethanol or propanol.

Further, the search has covered some general aspects of the invention to some extent, although it lacks the necessary precision in the definition of the subject matter. Consequently, the search for the general concept of alcohol or carboxylic acid will retrieve a pertinent document only if this concept is described in general terms in a reference. Specific solutions previously known and falling under the general concept - but failing to mention this fact - are likely not to be revealed in such a search.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established will not be the subject of an international preliminary examination (Rule 66.1(e) PCT). This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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## INTERNATIONAL SEARCH REPORT

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EP	0640285	A1	01/03/1995	AU	669450	B	06/06/1996
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				DE	4329517	A,C	02/03/1995
				DE	59406395	D	00/00/0000
				ES	2118317	T	16/09/1998
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WO	0194513	A1	13/12/2001	AU	6343701	A	17/12/2001
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				JP	2003535959	T	02/12/2003
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WO	9746218	A2	11/12/1997	AU	2959497	A	05/01/1998
				BR	9709422	A	10/08/1999
				CA	2252555	A	11/12/1997
				CN	1133418	B	07/01/2004
				CN	1220597	A	23/06/1999
				DE	69715421	D,T	07/08/2003
				EP	0914085	A,B	12/05/1999
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				ES	2182077	T	01/03/2003
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## INTERNATIONAL SEARCH REPORT

International application No.

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				BR	9608603	A	05/01/1999
				CA	2219924	A,C	19/12/1996
				CN	1123293	B	08/10/2003
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				CZ	9703847	A	13/05/1998
				DE	69607958	D,T	17/08/2000
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				EP	0830061	A,B	25/03/1998
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				ES	2147649	T	16/09/2000
				GR	3033983	T	30/11/2000
				HU	9901082	A	28/07/1999
				IL	122103	A	13/09/2001
				JP	11507363	T	29/06/1999
				NO	975635	A	27/01/1998
				NZ	310798	A	27/03/2000
				PL	185880	B	29/08/2003
				PL	323717	A	14/04/1998
				PT	830061	T	31/10/2000
				RU	2163145	C	20/02/2001
				SK	164797	A	05/08/1998
				US	5762948	A	09/06/1998
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